5088

Diag. Cht. No. 8502-2 & 8556-1

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R.S.PATTON, ..., Director

State: ~~S.W.~~Alaska.

DESCRIPTIVE REPORT

~~Topographic~~ Hydrographic } Sheet No. 23 5088

LOCALITY

~~LOW CAPE to CAPE ALITAK~~

Kodiak Island, ~~Alaska.~~

Cape Alitak to Low Cape

1930

CHIEF OF PARTY

F.H.HARDY, H.&.G.E.

U. S. GOVERNMENT PRINTING OFFICE: 1928

5088

Form 537
Ed. Sept., 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5088

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 23

REGISTER NO. 5088

State Alaska

General locality Kodiak Island

Locality ~~Low Cape to~~ Cape Alitak to Low Cape

Scale 1:20,000 Date of survey July-August, 1930

Vessel Str. SURVEYOR

Chief of Party F. H. Hardy

Surveyed by R. J. Sipe

Protracted by H. F. Garber

Soundings penciled by H. F. Garber

Soundings in fathoms ~~-feet-~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by [signature]

Verified by [signature]

Instructions dated April 1, 1930

Remarks:

U. S. GOVERNMENT PRINTING OFFICE: 1930

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC FIELD SHEET No.23

LOW CAPE to CAPE ALITAK

Kodiak Island, AAA.

Str. SURVEYOR. F.H.HARDY, Com'd'g.

SCALE : 1 : 20,000

INSTRUCTIONS DATED APRIL 1-st,1930.

GENERAL LOCATION.

The hydrography executed on this sheet covers an inshore area extending from LOW CAPE to CAPE ALITAK. The limits of this sheet join Field Sheet No.22 to the north and Field Sheets No's 41 and 61 to the westward. The southern limit makes a junction with Sheet No.H - 4971 surveyed in 1929.

SURVEY METHODS.

The sounding lines, in general, were spaced 100 meters apart around LOW CAPE and 300 meters apart along the remaining coast according to paragraph(17 a)of the Instructions. The lines were run normal to the beach, steering ranges throughout, with no courses being recorded in the sounding records. All of the work was done by the Motor Sailer, using the hand lead up to ten fathoms, and a power driven sounding machine for greater depths. The sounding machine is located forward amidship with the sounding wire leading to port. The sheave used was tested on July 18-th to a depth of fifty fathoms and found correct.

DISCREPANCIES.

There were no discrepancies of soundings noted on this sheet.

SHOALS.

The area lying off LOW CAPE is quite shoal with a rocky bottom, the six fathom curve extending over a mile offshore. In moderately heavy seas, the breakers extend approximately one half mile offshore. Scattered kelp grows in this area beginning about one mile offshore as shown on the hydrographic sheet with a dash line marking its limits. These limits were determined by noting on the boat sheet whenever the launch encountered a kelp field.

DETERMINATION OF LOW WATER LINE.

The beach from LOW CAPE to triangulation station MEARS is quite flat, and due to the surf along an exposed coast it was impossible to obtain soundings that would reduce to zero at M.L.L.W. So the low water line as shown by the Topographic Sheet "C" was transferred to the Hydrographic Sheet, it was evident from the soundings that it was not determined at M.L.L.W. This line, however, was left on the Hydrographic Sheet in pencil, shown by a full line.

LOCATION OF HYDROGRAPHIC SIGNALS.

The signals Boy, Tin, Up, War and Bur were determined by sextant fixes at these signals, and theodolite cuts from triangulation station NORTH TWIN. In plotting, some of the check angles failed to check and a greater weight was given to the theodolite cuts. These signals were used in hydrography for positions very close inshore, so that any discrepancy in their location would not affect the hydrography in this area.

TIDE GAUGE.

A standard Automatic Tide Gauge No.212 located at Lazy Bay was used for the reduction of soundings. No time or range corrections were made.

Approved
J.F.Hardy
Inspecting Officer

Respectfully submitted,

H. F. Garber

H.F.Garber, Jr. H.&.G.E.
U.S.C.&.Geodetic Survey.

LIST OF SIGNALS

HYDROGRAPHIC SHEET No. 23

Hydrographic Name	Location
BLUFF	BLUFF 1930
LOW	LOW CAPE 1930
MAY	MAY 1930
LIT	LIT 1930
GUMP	GUMP 1930
MEARS	MEARS 1930
LIG	LIGHT 1930
ROD	RODMAN 1929
TANNER	TANNER 1929
MOUNT	MOUNT 1929
N. TWIN	NORTH TWIN 1919
TAK	ALITAK 1919

Hydrographic Name	Location
Dav	Topo. Sheet "B"
Hump	" " "B"
Cal	" " "B"
Mug	" " "B"
Bo	" " "B"
Cap	Top. Sheet "C"
Ta	" " "C"
Doc	" " "C"
Big	" " "C"
Red	" " "C"
Sap	" " "C"
Gee	" " "C"
Sis	" " "C"
Joe	" " "C"
Bar	" " "C"
Pole	" " "C"
Pac	" " "C"

Hydrographic Name	Location
Slat	Topo Sheet "C"
Dog	" " "C"
If	" " "C"
At	" " "C"
Saw	" " "C"
Tad	" " "C"
Can	" " "C"
Rum	" " "C"
All	" " "C"
Tip	" " "C"
Dot	" " "C"
Big	" " "C"
Nat	" " "C"
Peg	" " "C"
Bull	" " "C"
Be	" " "T" 4486
Cy	" " "T" 4486

Hydrographic Name	
Boy	Hydro. Signal, pg. 54, Sdg. record Vol. 4
Tin	" " " 54, " " " 4
Up	" " " 54, " " " 4
War	" " " 54, " " " 4
Bur	

STATISTICS FOR FIELD SHEET # 23.

Date	Day	Vol.	Sta. Miles Sdg. Line	No. of Sdgs.	No. of Positions.
1930.					
July 25	a	1	3.8	111	35
27	b	1	--	--	6
Aug. 5	c	1	10.0	211	58
6	d	1	33.0	544	171
7	e	1&2	21.7	258	130
8	f	2	32.9	500	163
9	g	2&3	47.9	699	250
12	h	3	10.9	156	68
14	j	3	35.0	515	208
15	k	3&4	33.8	450	188
16	l	4	31.7	504	184
TOTALS:-			260.7 T	3948	1461

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5088

Locality **Cape Alitak to Low Cape, Kodiak Island, S. W. Alaska**

Chief of Party: **F.H.Hardy, in 1930**
Plane of reference is **mean lower low water, reading**
3.6 ft. on tide staff at **Lazy Bay**
14.2 ft. below B. M. **1**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

H Marmer
Chief, Division of Tides and Currents.

Section of Field Records

Sheet No. H 5088
Surveyed in 1930
Chief of Party - F. H. Hardy
Surveyed by - R. J. Lipe
Protracted by - H. F. Garber
Soundings plotted by - H. F. Garber
Verified and Inked by G. W. McGlocson

1. The records conform to the requirements of the general instructions.
2. The plan and character of development fulfill the requirements of the general instructions.
3. The sounding lines and crossings are adequate.
4. The usual depth curves can be drawn within the limits of the sheet.
5. The field plotting was completed to the extent prescribed in general instructions.
6. The office draftsman did not have to do over any part of drafting done by field party, except as noted on plotting sheet.
7. The junction with adjacent sheets that have been verified and inked, were found to be satisfactory. The remaining adjacent sheets will be considered when they have been verified.
8. This sheet was well done. The field plotting was excellent and

there were very few changes made. There were a few new rocks discovered and splendid cuts were taken Consequently they were easily located.

Respectfully submitted,
E. C. McGlasson

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 5088
Cape Alitak to Low Cape, Kodiak I., Alaska.
Surveyed in 1930
Hand lead and machine soundings.
Instructions dated April 1, 1930. (Surveyor).

Chief of Party - F. H. Hardy.
Surveyed by - R. J. Sipe.
Protracted by - H. F. Garber.
Soundings plotted by - H. F. Garber.
Verified and inked by - G. C. Mc Glasson.

1. The records conform to the requirements.

2. The plan, character and extent of the survey satisfy the general and specific instructions.

3. As nearly all of the lines are normal to the shore there are very few crossings. These are satisfactory and the general agreement of adjacent lines is good.

4. The information is sufficient for completely drawing the usual depth curves except the low water curve and parts of the one fathom curve. The low water line was taken from the topographic sheet but judging from the soundings it is probable that some of it was not determined at M.L.L.W. It should be used however in areas where the sounding lines do not reach far enough inshore to reduce to zero.

5. The junction with H. 4971 is satisfactory.

The off shore junction with H. 5084 is satisfactory and except for a few small differences, the general agreement very good.

The junctions with H. 5089 and H. 5076 will bereported in the reviews of those sheets when they are completed.

There are no previous surveys of this area.

6. The usual amount of field plotting was well done by the field party.

7. Character and scope of surveying.

The ground is uniformly covered and the development is believed to be sufficient.

The survey is considered very good.

8. No additional work is required.

9. Reviewed by R. L. Johnston - May 13, 1931.
Inspected: E. P. Ellis.
Approved: A. M. Sobieralski. (Signed)

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5088

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	1470
Number of positions checked	236
Number of positions revised	3
Number of soundings recorded	4948
Number of soundings revised	57
Number of signals erroneously plotted or transferred	None

Date: 4-25-31

Cartographer: H. McGlasson